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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/709,635	05/19/2004	Chih-Chung Lu	IEIP0011USA	3634
27765 7590 10/30/2007 NORTH AMERICA INTELLECTUAL PROPERTY CORPORATION P.O. BOX 506 MERRIFIELD, VA 22116			EXAMINER KANE, CORDELIA P	
			ART UNIT 2132	PAPER NUMBER
			NOTIFICATION DATE 10/30/2007	DELIVERY MODE ELECTRONIC

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

winstonhsu.uspto@gmail.com  
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mis.ap.uspto@naipo.com.tw

## Office Action Summary

Application No.

10/709,635

Applicant(s)

LU ET AL.

Examiner

Cordelia Kane

Art Unit

2132

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 19 September 2007.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-16 is/are pending in the application.
- 4a) Of the above claim(s) 17 is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-16 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 19 May 2004 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some \* c) ☐ None of:
- ☒ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- ☒ Notice of References Cited (PTO-892)
- ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- ☐ Information Disclosure Statement(s) (PTO/SB/08)  
Paper No(s)/Mail Date \_\_\_\_\_
- ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date \_\_\_\_\_
- ☐ Notice of Informal Patent Application
- ☐ Other: \_\_\_\_\_

## **DETAILED ACTION**

### ***Election/Restrictions***

1. Claim 17 is withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected invention, there being no allowable generic or linking claim. Election was made **without** traverse in the reply filed on September 19, 2007.

### ***Claim Rejections - 35 USC § 102***

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

3. Claims 1, 2, 4 – 8, and 10 – 16 are rejected under 35 U.S.C. 102(a) as being anticipated by Buffalo Technology's Wireless Broadband Router Base Station User Manual, 2003. Referring to claim 1, Buffalo teaches:

- a. A Web GUI for generating at least one window in the user computer system, the window having a decryption/encryption module update system to allow a user to upload a new decryption/encryption module to the security gateway (page 6).
- b. An extended library for accommodating a decryption/encryption module (page 12-13). The router is storing the encryption/decryption modules therefor it has a library.

Art Unit: 2132

- c. A module update unit for actively updating a corresponding decryption/encryption module in the extended library according to the new decryption/encryption module uploaded to the security gateway (Page 12-13, WEP or WPA-PSK key inputs).
4. Referring to claim 2, Buffalo teaches that the gateway is a VPN gateway complying with IPSEC protocol (page 4).
5. Referring to claim 4, Buffalo teaches that the encryption/decryption module update system in the window of the web GUI includes a system for allowing the user to update a current encryption/decryption module in the security gateway (pages 12-13, changing the WEP or WPA key).
6. Referring to claim 5, Buffalo teaches allowing the user to add a defined decryption/encryption module into the security gateway (pages 12-13, adding a different algorithm either WEP, AES, TKIP or WPA).
7. Referring to claim 6, Buffalo teaches generating a window for providing the user with an instruction to fill in a field in the window with a description of the defined encryption/decryption module (page 13, entering in the appropriate information for the algorithm selected).
8. Referring to claim 7, Buffalo teaches that the description includes an algorithmic identifier (WEP, WPA, AES), data encryption block size (number of characters), key length (number of characters), and decryption/encryption executing function (the algorithm), the parameters, including a data address (Radius Server IP Address), data block key size (number of characters), key information, key length, (creating the key),

Art Unit: 2132

initial vector (initialization vector), and decryption/encryption flag (enable/disable data encryption) (pages 12-13).

9. Referring to claim 8, Buffalo teaches actively updating the corresponding encryption/decryption module in the library (page 13, when the option is selected it is understood that it is updated).

10. Referring to claim 10, Buffalo teaches that after a decryption/encryption module is updated the key exchange process is updated according to an IKE protocol (page 13). Buffalo teaches that the key changes with every packet, or that it can be changed every few seconds. Therefore the key is changed after the module is updated.

11. Referring to claim 11, Buffalo teaches:

d. Downloading a new decryption/encryption module to the user computer system through the network system (page 6).

e. Starting a Web GUI of the security gateway for generating at least one window in the user computer system having a decryption/encryption update module (pages 11-13).

f. Selecting a decryption/encryption module (page 12).

g. Uploading the selected decryption/encryption module (pages 12-13).

h. A module update unit for actively updating a corresponding decryption/encryption module in the extended library according to the new decryption/encryption module uploaded to the security gateway (Page 12-13, WEP or WPA-PSK key inputs).

Art Unit: 2132

- i. Updating a key exchange process in the security gateway according to IKE protocol (page 13). Buffalo teaches that the key changes with every packet, or that it can be changed every few seconds. Therefore the key is changed after the module is updated.
12. Referring to claims 12 – 15, claims 12 to 15 correspond to claims 4 to 7. Since claims 4 to 7 are rejected, so are 12 to 15.
13. Referring to claim 16, Buffalo teaches that the security gateway executes the updated key exchange process (page 13, the key changes in the router).

### ***Claim Rejections - 35 USC § 103***

14. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

15. The factual inquiries set forth in *Graham v. John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

1. Determining the scope and contents of the prior art.
2. Ascertaining the differences between the prior art and the claims at issue.
3. Resolving the level of ordinary skill in the pertinent art.
4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

Art Unit: 2132

16. Claim 3 is rejected under 35 U.S.C. 103(a) as being unpatentable over Buffalo as applied to claim 1 above, and further in view of Cohen et al's US Patent 6,389,462 B1.

Buffalo discloses all the limitations of the parent claim. Buffalo does not explicitly disclose that the gateway includes a library, kernel, and daemon. However, Cohen discloses that the gateway includes a library (column 8, lines 3-5), kernel (column 8, lines 1-3) and daemon (column 7, lines 59-60). Buffalo and Cohen are analogous art because they are from the same field of endeavor, security gateways. At the time of the invention, it would have been obvious to one of ordinary skill in the art, having the teachings of Buffalo and Cohen before him or her, to modify the gateway of Buffalo to include the library, kernel and daemon of Cohen. The suggestion/motivation for doing so would have been to enable the gateway to communicate with the dispatcher process (column 8, lines 5-8).

17. Claim 9 is rejected under 35 U.S.C. 103(a) as being unpatentable over Buffalo as applied to claim 1 and 2 above, and further in view of Sun et al's US Publication 2003/0187915 A1. Buffalo discloses all the limitations of the parent claims. Buffalo does not explicitly disclose an interface for assisting the extended library to communicate with the current library and kernel. However, Sun discloses the extended communication library communicates with both the kernel and the library (pages 7-8, paragraphs 82-83). Buffalo and Sun are analogous art because they are from the same field of endeavor, communication. At the time of the invention, it would have been obvious to one of ordinary skill in the art, having the teachings of Buffalo and Sun before him or



Art Unit: 2132


her, to modify the system of Buffalo to include the extended library interface for communication of Sun.

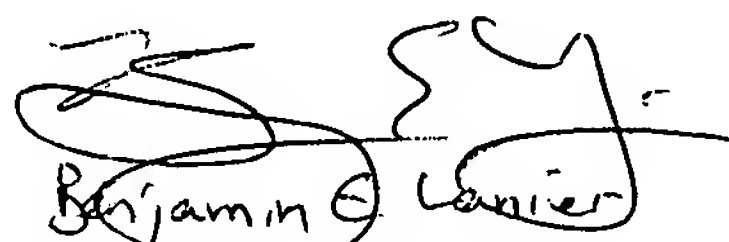
### **Conclusion**

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Cordelia Kane whose telephone number is 571-272-7771. The examiner can normally be reached on Monday - Thursday 8:00 - 5:00 EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gilberto Barron can be reached on 571-272-3799. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

  
Cordelia Kane  
Patent Examiner  
Art Unit 2132

  
Benjamin E. Carrier  
Examiner Art Unit 2132